

(SMERF4.SMERF) 11349

SMERF FOUR DEPARTURE (RNAV)

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (MSP)

SL-264 (FAA)

MINNEAPOLIS, MINNESOTA

ATIS DEP 120.8

CLNC DEL

133.2

MINNEAPOLIS TOWER

123.95 273.55 (12L-30R)

126.7 273.55 (12R-30L, 4-22)

123.675 273.55 (17-35)

MINNEAPOLIS DEP CON

SOUTH or EAST 124.7 357.4

NORTH or WEST 125.75 357.4

TAKE-OFF MINIMUMS:

Rwys 4, 22, 12L, 12R, 17: Standard.

Rwy 30L: Standard with minimum climb of 210' per NM to 2100.

Rwy 30R: Standard with minimum climb of 220' per NM to 2100.

Rwy 35: Standard with minimum climb of 219' per NM to 2100.

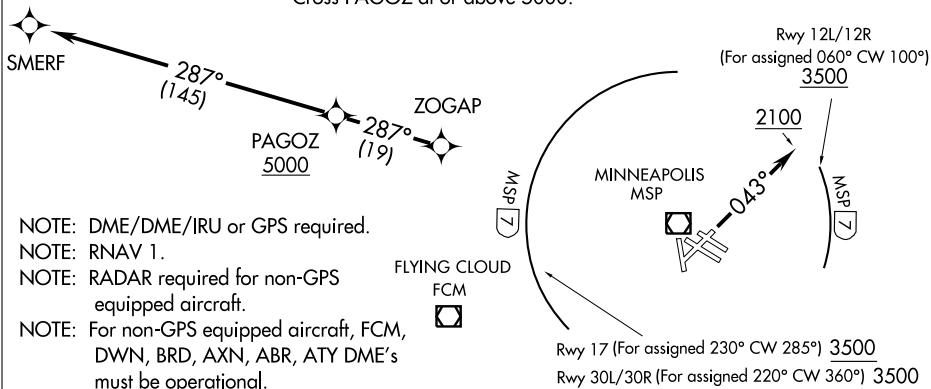
DEPARTURE CROSSING RESTRICTIONS:

Rwy 12L/R requires an ATC climb gradient of 546' per NM to 3500.

Rwy 17 requires an ATC climb gradient of 465' per NM to 3500.

Rwy 30L/R requires an ATC climb gradient of 380' per NM to 3500.

Cross PAGOZ at or above 5000.



NOTE: Chart not to scale.

(NOTES CONTINUED ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb heading 043° to 2100. Thence . . .

TAKE-OFF RUNWAYS 12L/12R: For assigned headings from 060° clockwise to 100°, cross MSP VOR/DME 7 DME Arc at or above 3500, maintain assigned altitude.

If unable to comply, advise ATC as soon as possible prior to departure. Thence . . .

TAKE-OFF RUNWAY 17: For assigned headings from 230° clockwise to 285°, cross MSP VOR/DME 7 DME Arc at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure. Thence . . .

TAKE-OFF RUNWAYS 22, 35: Climb on assigned heading for radar vectors. Thence . . .

TAKE-OFF RUNWAYS 30L/R: For assigned heading from 220° clockwise to 360°, cross MSP VOR/DME 7 DME Arc at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure. Thence . . .

. . . expect radar vectors to ZOGAP, then on track 287° to PAGOZ and on track 287° to SMERF. Turbojet aircraft maintain 7000 or lower assigned altitude, all other aircraft maintain 5000 or lower assigned altitude. Expect filed altitude/flight level 10 minutes after departure.

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